

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P951443

Luminaire Tested: **GALN-SB5C-830-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951443
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26184 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

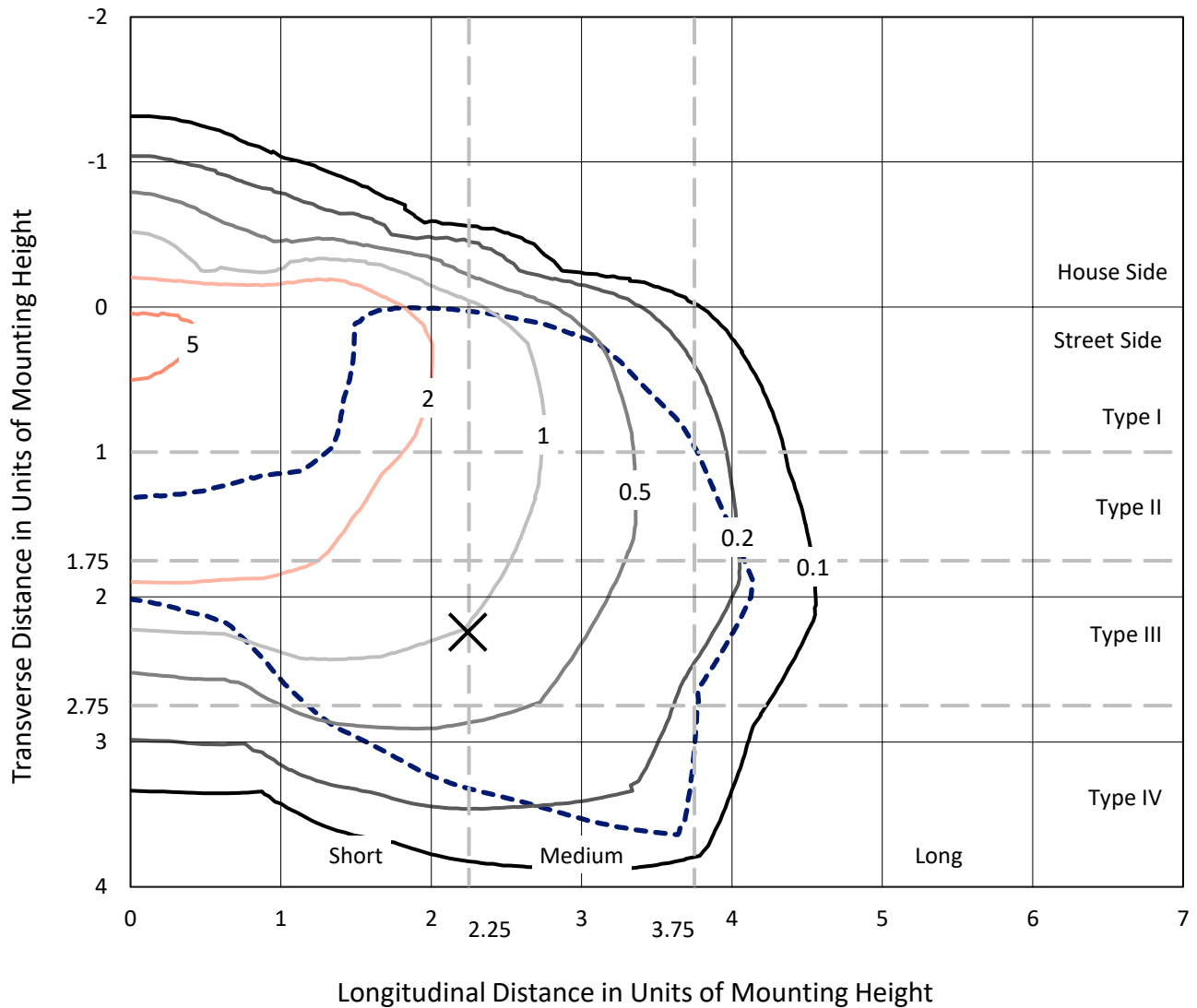
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

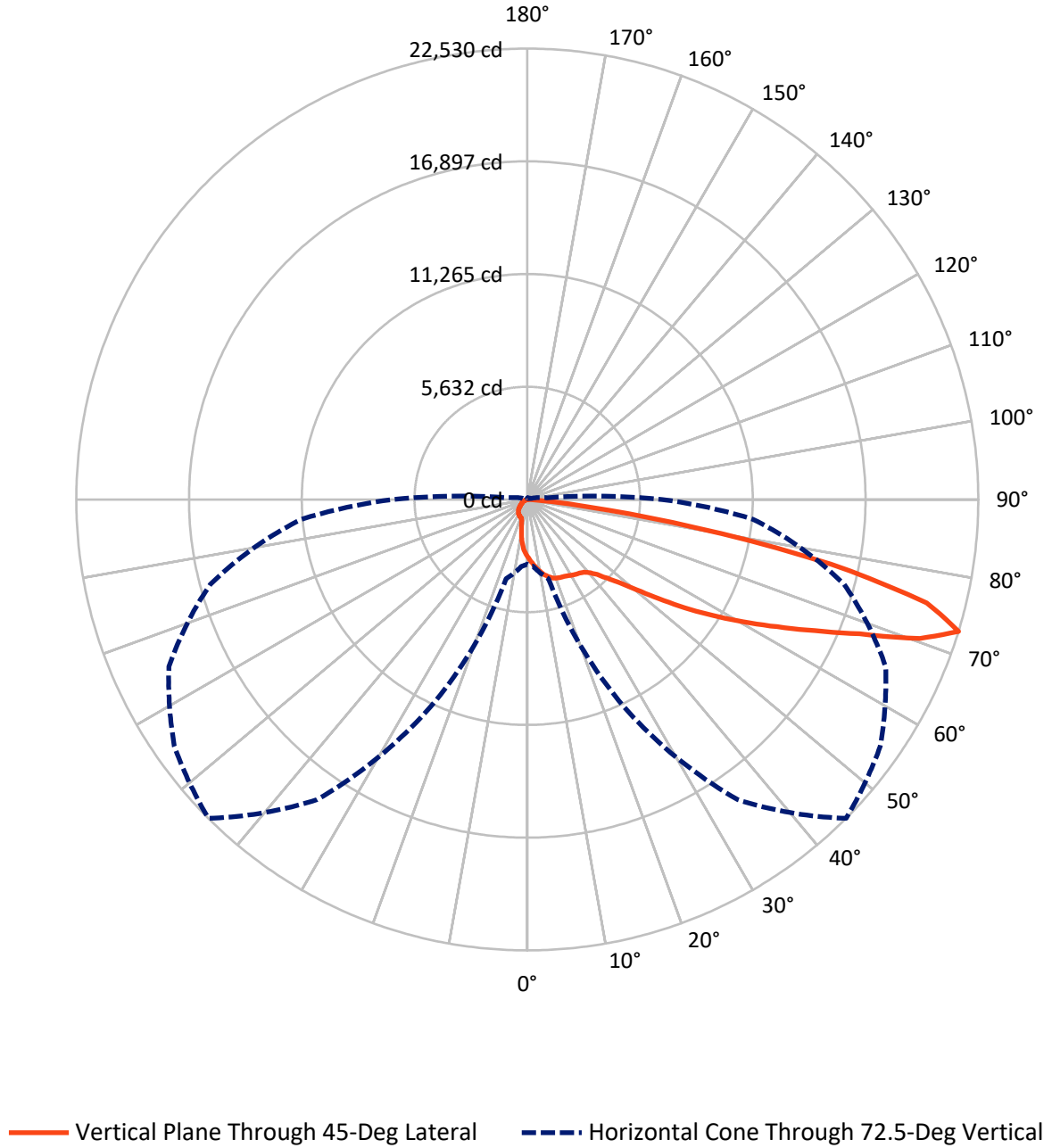
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2751.2	0.0	2751.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	23432.8	0.0	23432.8
	% Fixture	89.5	0.0	89.5
Total	Lumens	26184.0	0.0	26184.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.3	1.0
10°-20°	789.9	3.0
20°-30°	1297.1	5.0
30°-40°	1839.6	7.0
40°-50°	3040.7	11.6
50°-60°	5462.3	20.9
60°-70°	7584.7	29.0
70°-80°	5501.7	21.0
80°-90°	397.8	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	26184.0	100.0
0°-180°	26184.0	100.0

Coefficient of Utilization



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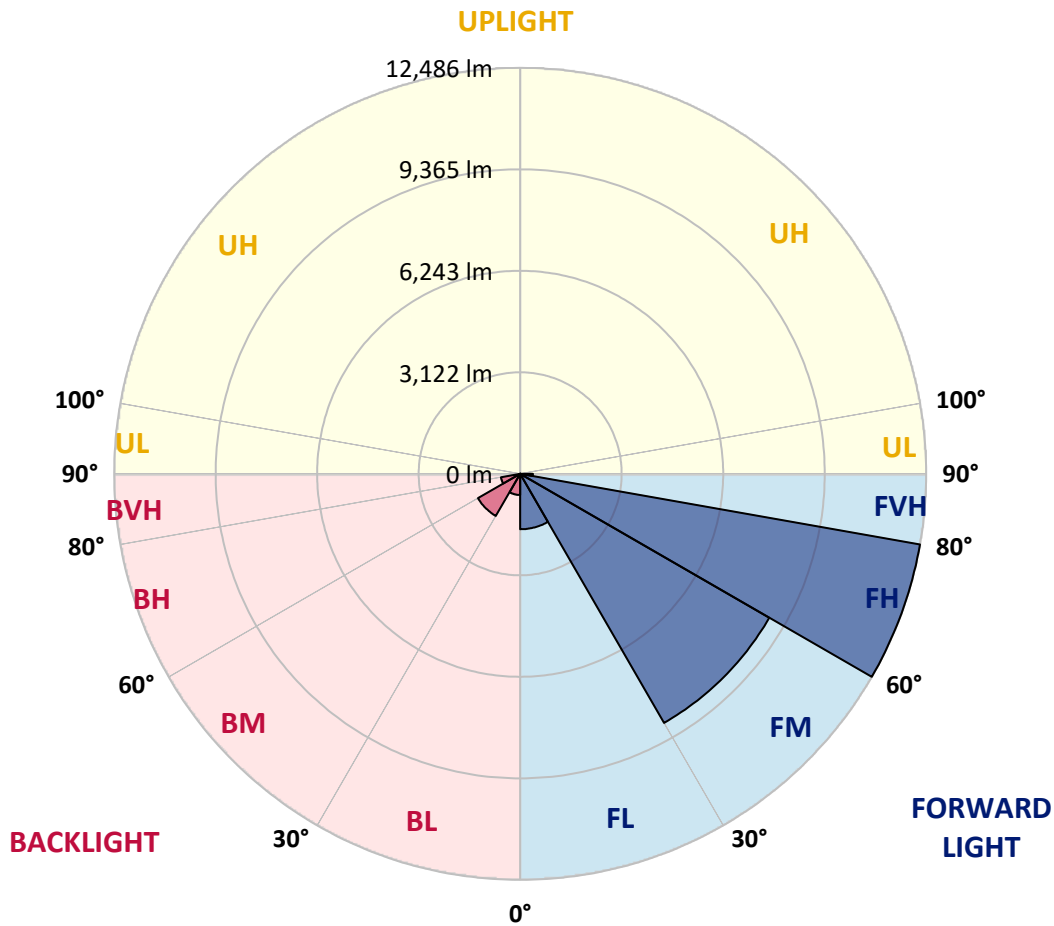
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1705.6	6.5			
FM (30°-60°)	8846.3	33.8			
FH (60°-80°)	12486.4	47.7			G5
FVH (80°-90°)	394.4	1.5			G3/500
BL (0°-30°)	651.7	2.5	B2/1000		
BM (30°-60°)	1496.3	5.7	B2/2500		
BH (60°-80°)	599.9	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2868.5	2868.5	2868.5	2868.5	2868.5	2868.5	2868.5	2868.5	2868.5	2868.5
2.5°	3133.0	3138.4	3134.8	3113.4	3077.6	3058.0	3047.2	3011.5	2988.3	2947.2
5°	3420.8	3442.2	3429.7	3386.8	3318.9	3270.6	3256.3	3183.1	3116.9	3040.1
7.5°	3726.4	3737.1	3713.9	3658.5	3567.3	3485.1	3472.6	3370.7	3265.3	3147.3
10°	3990.9	4003.4	3967.7	3887.2	3783.6	3681.7	3663.8	3551.2	3426.1	3281.4
12.5°	4212.5	4225.0	4178.6	4082.0	3967.7	3862.2	3844.3	3726.4	3588.8	3427.9
15°	4380.5	4403.7	4341.2	4237.5	4114.2	4008.8	3999.8	3883.7	3749.6	3570.9
17.5°	4478.8	4502.0	4443.1	4318.0	4212.5	4123.2	4112.4	4015.9	3890.8	3719.2
20°	4494.9	4516.3	4453.8	4344.8	4257.2	4185.7	4180.3	4110.6	4019.5	3855.1
22.5°	4446.6	4473.5	4416.3	4328.7	4267.9	4230.4	4223.2	4183.9	4132.1	3992.7
25°	4396.6	4418.0	4375.2	4298.3	4266.1	4262.6	4267.9	4260.8	4250.0	4132.1
27.5°	4393.0	4416.3	4368.0	4294.7	4276.9	4314.4	4319.7	4353.7	4362.6	4259.0
30°	4423.4	4439.5	4393.0	4316.2	4307.2	4393.0	4394.8	4455.6	4469.9	4366.2
32.5°	4489.5	4507.4	4460.9	4348.3	4335.8	4455.6	4460.9	4541.4	4564.6	4480.6
35°	4645.0	4666.5	4612.9	4437.7	4393.0	4514.6	4530.6	4625.4	4671.8	4602.1
37.5°	5032.9	4970.3	4897.0	4618.2	4523.5	4607.5	4634.3	4745.1	4827.3	4746.9
40°	5996.2	5799.6	5570.8	4925.6	4752.3	4805.9	4827.3	4938.1	5050.7	4972.1
42.5°	7442.0	7209.7	6841.5	5633.4	5097.2	5124.0	5140.1	5236.6	5395.7	5333.1
45°	8730.6	8646.6	8271.3	6841.5	5742.4	5610.1	5629.8	5679.8	5914.0	5890.7
47.5°	9720.8	9672.5	9383.0	8228.4	6832.6	6205.3	6260.7	6283.9	6621.7	6703.9
50°	10482.1	10464.3	10205.1	9461.6	8257.0	7082.8	7102.5	7052.4	7558.2	7762.0
52.5°	11200.6	11261.4	11070.1	10607.2	9778.0	8232.0	8228.4	7992.5	8675.2	8982.6
55°	11849.4	11870.8	11890.5	11776.1	11307.8	9540.3	9506.3	9120.3	9971.0	10289.1
57.5°	12458.8	12467.8	12642.9	12877.0	12900.3	10945.0	10882.5	10419.6	11386.5	11613.5
60°	12868.1	12909.2	13279.2	13929.7	14213.9	12394.5	12360.5	11888.7	12827.0	12932.4
62.5°	12278.3	12528.5	13461.5	14751.8	15454.2	14001.2	13985.1	13541.9	14342.6	14256.8
65°	9938.8	10362.4	12003.1	15307.7	16671.3	15795.6	15818.8	15347.0	15899.2	15620.4
67.5°	6952.3	7399.2	9340.1	15352.4	18031.4	17902.7	18036.8	17296.9	17552.4	16926.9
70°	4807.7	5038.2	6301.8	14390.8	19091.2	20805.2	20801.6	19691.8	19196.7	17522.1
72.5°	3233.1	3352.9	4092.8	11416.9	18312.0	22529.9	22426.2	21521.9	19750.7	16387.2
75°	1363.7	1451.2	1894.5	6416.2	14487.3	20612.2	20331.6	19019.8	17548.9	12903.8
77.5°	432.5	470.0	747.1	2296.6	7980.0	15493.5	15196.9	11878.0	11761.8	6473.4
80°	205.5	239.5	420.0	922.2	3140.2	8426.8	8385.7	5388.5	5059.7	1747.9
82.5°	89.4	105.4	232.3	493.3	1404.8	3006.1	3066.9	1833.7	1517.4	663.1
85°	28.6	37.5	107.2	227.0	593.4	747.1	738.1	436.1	611.2	361.0
87.5°	0.0	0.0	35.7	51.8	60.8	42.9	48.3	37.5	169.8	100.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2868.5	0°	2868.5	2868.5	2868.5	2868.5	2868.5	2868.5	2868.5	2868.5	2868.5	2868.5
2904.3	2.5°	2882.8	2854.2	2804.2	2757.7	2716.6	2675.5	2650.5	2614.7	2611.2	2611.2
2950.7	5°	2902.5	2856.0	2766.6	2671.9	2562.9	2459.2	2355.6	2255.5	2223.3	2200.1
3025.8	7.5°	2959.7	2886.4	2745.2	2564.7	2357.4	2130.4	1971.3	1799.7	1733.6	1697.9
3125.9	10°	3041.9	2941.8	2727.3	2411.0	2075.0	1765.8	1538.8	1352.9	1281.4	1251.1
3234.9	12.5°	3133.0	3009.7	2695.2	2219.7	1765.8	1395.8	1174.2	1088.4	1077.7	1077.7
3365.4	15°	3242.0	3091.9	2639.7	1994.6	1442.3	1104.5	1025.9	1029.4	1040.2	1047.3
3492.3	17.5°	3354.6	3179.5	2552.2	1742.6	1156.3	993.7	995.5	1000.9	1009.8	1016.9
3629.9	20°	3476.2	3267.1	2436.0	1474.5	991.9	961.5	966.9	972.3	979.4	983.0
3758.6	22.5°	3606.6	3349.3	2298.4	1211.7	936.5	934.7	936.5	941.9	950.8	950.8
3908.7	25°	3746.0	3440.4	2141.1	1020.5	907.9	907.9	911.5	915.1	922.2	922.2
4053.5	27.5°	3889.0	3524.4	1974.9	920.4	882.9	881.1	881.1	886.5	890.0	891.8
4196.4	30°	4046.3	3622.7	1808.7	899.0	863.2	854.3	848.9	852.5	856.1	857.9
4346.6	32.5°	4207.2	3717.4	1660.3	907.9	843.6	827.5	809.6	806.0	806.0	813.2
4502.0	35°	4385.9	3821.1	1546.0	938.3	832.9	788.2	759.6	743.5	745.3	756.0
4687.9	37.5°	4600.3	3946.2	1462.0	965.1	825.7	743.5	697.0	677.4	664.9	677.4
4943.5	40°	4880.9	4130.3	1401.2	986.6	816.8	691.7	629.1	596.9	573.7	580.9
5340.3	42.5°	5293.8	4419.8	1378.0	988.3	797.1	630.9	559.4	516.5	482.6	484.3
5937.2	45°	5872.9	4877.4	1497.7	965.1	754.2	564.8	486.1	428.9	407.5	402.1
6829.0	47.5°	6666.4	5544.0	1774.7	916.9	691.7	500.4	414.6	366.4	350.3	341.4
7999.7	50°	7729.8	6400.1	2082.1	863.2	629.1	439.7	355.7	325.3	314.6	305.6
9388.3	52.5°	8963.0	7268.7	2334.1	809.6	566.6	386.0	318.1	300.3	291.3	284.2
10728.8	55°	10094.3	7867.4	2319.8	752.4	505.8	343.1	291.3	280.6	269.9	262.7
11883.3	57.5°	10798.5	7951.4	1912.3	689.9	436.1	309.2	266.3	259.1	246.6	237.7
12882.4	60°	11122.0	7472.4	1340.4	607.7	366.4	277.0	239.5	235.9	219.8	207.3
13827.8	62.5°	11180.9	6582.4	893.6	505.8	305.6	246.6	212.7	207.3	185.9	164.4
14596.4	65°	10941.5	5309.9	618.4	395.0	260.9	214.5	182.3	171.6	148.3	126.9
14778.6	67.5°	10183.7	3728.2	430.7	284.2	221.6	169.8	144.8	141.2	123.3	105.4
13849.3	70°	8795.0	2125.0	287.7	212.7	175.1	116.2	114.4	118.0	100.1	85.8
11315.0	72.5°	6743.2	972.3	178.7	155.5	119.7	78.6	91.1	92.9	76.9	64.3
7059.6	75°	3969.4	416.4	112.6	100.1	60.8	51.8	66.1	67.9	51.8	41.1
2580.8	77.5°	1351.2	157.3	71.5	59.0	30.4	28.6	42.9	42.9	28.6	16.1
518.3	80°	307.4	59.0	35.7	23.2	14.3	12.5	14.3	12.5	7.1	1.8
159.1	82.5°	87.6	23.2	14.3	8.9	5.4	5.4	1.8	0.0	0.0	0.0
55.4	85°	25.0	10.7	3.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0
19.7	87.5°	10.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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<u>180°</u>
2868.5
2620.1
2210.8
1703.2
1251.1
1077.7
1047.3
1016.9
984.8
954.4
924.0
893.6
861.4
818.6
761.4
673.8
577.3
477.2
395.0
336.0
303.8
282.4
259.1
235.9
203.7
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119.7
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